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|  | | <h1 style="text-align: center;">AWARD/ MODIFICATION</h1> | | 3a. ISSUED BY: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995 | |
| | | | | 3b. CFDA: 12.300 | |
| 1. INSTRUMENT TYPE: Grant Award | | 3c. DUNS NUMBER: 052184116 | | | |
| 2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended | | 7. PR NO.: 1000009448 | | | |
| 4. AWARD NO.: N00014-18-1-2503 | | 5. MODIFICATION NO.: | | 6. MODIFICATION TYPE: NEW | |
| 8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12513761 | | 9. RECIPIENT PROPOSAL NO.: | | 10. PROPOSAL DATE: 11012017 | |
| 11. ACTIVITY TYPE: R&D | | 12. PROGRAM TYPE: MURI | | | |
| 13. ISSUED TO 13a. ADDRESS: CARNEGIE MELLON UNIVERSITY 5000 FORBES AVE PITTSBURGH PA 15213-3815 UNITED STATES OF AMERICA | | 13b. CAGE: 97668 | | 13c. EDI/EFT NUMBER: N/A | |
| 13d. BUSINESS OFFICE CONTACT: Judy Coyle | | 14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as Block # 13 | | | |
| 13e. TELEPHONE NUMBER: 412-268-5597 | | | | | |
| 15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: SUCCESS: Self-assessment and Understanding of Competence and Conditions to Ensure System Success | | | | | |
| 16. FUNDING | | ACTIVITY/AGENCY SHARE | | RECIPIENT SHARE | |
| PREVIOUSLY OBLIGATED: | | | | \$0.00 | |
| OBLIGATED BY THIS ACTION: | | | | \$50,000.00 | |
| TOTAL OBLIGATED ON AWARD: | | | | \$50,000.00 | |
| FUTURE FUNDING: | | | | \$4,450,000.00 | |
| GRANT TOTAL: | | | | \$4,500,000.00 | |
| 17. CURRENT FUNDING PERIOD N/A THROUGH N/A | | | | | |
| 18. PERIOD OF PERFORMANCE 06/01/2018 THROUGH 05/31/2021 | | | | | |
| 19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s) | | | | | |
| 20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Aaron Steinfeld | | 21. TECHNICAL REPRESENTATIVE 21a. NAME: JASON STACK | | 21b. CODE: 321 | |
| | | 21c. ADDRESS: ONR OCEAN SENSING & SYSTEMS APPS DIV 875 N. Randolph Street Arlington VA 22203-1995 | | | |
| 20b. TELEPHONE NUMBER: 412-268-6346 | | 20c. EMAIL ADDRESS: steinfeld@cmu.edu | | 21d. TELEPHONE NUMBER: | |
| | | | | 21e. EMAIL ADDRESS: JASON.STACK@NAVY.MIL | |
| 22. AWARDDING OFFICE CONTACT 22a. NAME: DAVID BROADWELL | | 22b. CODE: BD255 | | 23a. ADMINISTRATIVE OFFICE: ONR REG Office Chicago Telephone: (312) 886-5423 Email: ONR_Chicago@navy.mil 230 South Dearborn CHICAGO IL 60604-1595 | |
| 22c. ADDRESS: Office of Naval Research 875 N. Randolph Street, Suite 1425 Arlington, VA 22203-1995 | | 23b. CODE: N62880 | | | |
| 22d. TELEPHONE NUMBER: 703-588-2866 | | 22e. EMAIL ADDRESS: DAVID.BROADWELL@NAVY.MIL | | | |
| 24. SUBMIT PAYMENT REQUEST TO: Same as block 23a | | 25a. PAYING OFFICE DFAS-CO/NORTH ENTITLEMENT OPERATIONS HQ0337 PO Box 182266 COLUMBUS OH 43128 | | 25b. CODE: HQ0337 | |
| | | | | 26a. PATENT OFFICE: Office of Naval Research ATTN: ONR Office of Counsel Intellectual Property Section One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995 | |
| | | | | 26b. CODE: N00014 | |

| AWARD NO. N00014-18-1-2503 | | AWARD/MODIFICATION | | MODIFICATION NO. | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|---------------------------|---|--|--------------------------------|--|-------------|------------|--|--------|-----|----------|----------------|--------------------------|-----|--|--|--|-----|--|--|--|-----|--|--|--|
| 27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx | | | | | | | | | | | | | | | | | | | | | | | | | | |
| This award provides full delegation to the administrative office in Block 23 of the grant. Full delegation includes the functions described in the DoDGARs at 32 CFR 22.715 and the administrative grants officer functions related to payments described in 32 CFR 22.810. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>DOCUMENT</th> <th>URL</th> </tr> </thead> <tbody> <tr> <td colspan="2"> The following documents may be found at : http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (SEPT 2017) UAWA AWARD A (SEP 2017) ONR ADDENDUM TO THE DOD RESEARCH GENERAL TERMS AND CONDITIONS AND ONR PROGRAMMATIC REQUIREMENTS (SEPT 2017) SPECIAL TERMS AND CONDITIONS (POLICY FOR IN SITU OCEAN DATA ARTICLE) (OCT 1999) </td> </tr> </tbody> </table> | | | | | | | DOCUMENT | URL | The following documents may be found at : http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (SEPT 2017) UAWA AWARD A (SEP 2017) ONR ADDENDUM TO THE DOD RESEARCH GENERAL TERMS AND CONDITIONS AND ONR PROGRAMMATIC REQUIREMENTS (SEPT 2017) SPECIAL TERMS AND CONDITIONS (POLICY FOR IN SITU OCEAN DATA ARTICLE) (OCT 1999) | | | | | | | | | | | | | | | | | |
| DOCUMENT | URL | | | | | | | | | | | | | | | | | | | | | | | | | |
| The following documents may be found at : http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (SEPT 2017) UAWA AWARD A (SEP 2017) ONR ADDENDUM TO THE DOD RESEARCH GENERAL TERMS AND CONDITIONS AND ONR PROGRAMMATIC REQUIREMENTS (SEPT 2017) SPECIAL TERMS AND CONDITIONS (POLICY FOR IN SITU OCEAN DATA ARTICLE) (OCT 1999) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>30. OPTIONS</th> <th>OPTION NO.</th> <th>AMOUNT</th> <th>PERIOD</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>Option 1</td> <td>\$2,977,655.00</td> <td>06/01/2021 to 05/31/2023</td> </tr> <tr> <td>(2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(3)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(4)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | 30. OPTIONS | OPTION NO. | AMOUNT | PERIOD | (1) | Option 1 | \$2,977,655.00 | 06/01/2021 to 05/31/2023 | (2) | | | | (3) | | | | (4) | | | |
| 30. OPTIONS | OPTION NO. | AMOUNT | PERIOD | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | Option 1 | \$2,977,655.00 | 06/01/2021 to 05/31/2023 | | | | | | | | | | | | | | | | | | | | | | | |
| (2) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (3) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31. REPORTS: The reporting requirements under this award are specified in the articles of part 5 (Financial, Programmatic, and Property Reporting) to the DoD R&D general Terms and Conditions and in the additional language for Part 5 in the ONR Addendum to the DoD R&D General Terms and Conditions. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32. FOR THE RECIPIENT | | | | 33. FOR THE UNITED STATES OF AMERICA | | | | | | | | | | | | | | | | | | | | | | |
| 32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN | | | | 33a. SIGNATURE OF AWARDOFFICER Digitally signed by VANESSA SEYMOUR 1061137463 Dated: 2018.05.08 17:34:57 EST | | | | | | | | | | | | | | | | | | | | | | |
| 32b. NAME AND TITLE OF SIGNER | | 32c. DATE SIGNED | 33b. NAME AND TITLE OF AWARD OFFICER VANESSA SEYMOUR | | 33c. DATE SIGNED 05/08/2018 | | | | | | | | | | | | | | | | | | | | | |

FINANCIAL ACCOUNTING DATA SHEET - NAVY

| | | | | | | | | | | | | | | | | | |
|---|--------------------------|-----------------------------------|-----------------------------|------------------|-------------------|---|----------|----------------------------|----------|-----------|--------------|-----|---------------|--------------------------------|--|--|--|
| 1. CONTRACT NUMBER (CRITICAL) N00014-18-1-2503 | | | 2. SPIIN (CRITICAL) | | 3. MOD (CRITICAL) | | | 4. PR NUMBER 1000009448 | | | | | | | | | |
| CLIN/SLIN | 6. LINE OF ACCOUNTING | | | | | | | | | | | | | 7. AMOUNT (CRITICAL) | | NAVY INTERNAL USE ONLY REF DOC/ACRN | |
| | A. ACRN (CRITICAL) | B. APPROPRIATION (CRITICAL) | C. SUBHEAD (CRITICAL) | D. OBJ CLA | E. PARM | F. RFM | G. SA | H. AAA (CRITICAL) | I. IT | J. PAA | K. COST CODE | | | | | | |
| | | | | | | | | | | | PROJ UNIT | MCC | PDLI & SUF | | | | |
| | AA | 1781319 | W1HZ | 410 | 00 | 014 | 0 | 050120 | 2D | 000000 | 000024 | 144 | 857 | \$50,000.00 | | | |
| PAGE TOTAL | | | | | | | | | | | | | | \$50,000.00 | | | |
| GRAND TOTAL | | | | | | | | | | | | | | \$50,000.00 | | | |
| PREPARED/AUTHORIZED BY: | | | | | | COMPTROLLER APPROVAL: | | | | | | | | | | | |
| DATE: | | | | | | FOR FISCAL DATA AND SIGNATURE | | | | | | | | | | | |
| | | | | | | BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED | | | | | | | | | | | |
| DATE: | | | | | | DATE: | | | | | | | | | | | |

FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

| | | | | | | |
|---|--------------------------|---------------------------|--|----------------------------|----------------------------|---|
| 1. CONTRACT NUMBER (CRITICAL) N00014-18-1-2503 | | 2. SPIIN (CRITICAL) | 3. MOD (CRITICAL) | 4. PR NUMBER 1000009448 | | |
| 5. CLIN/SLIN | 6. ACRN (CRITICAL) | 7. ACCOUNTING CITATION | | | 8. AMOUNT (CRITICAL) | NAVY INTERNAL USE ONLY REF DOC/ACRN |
| | | | | | | |
| PAGE TOTAL | | | | | | |
| GRAND TOTAL | | | | | | |
| PREPARED/AUTHORIZED BY: DATE: | | | COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE: _____ | | | |

| | | | |
|-------------------------------|-----------------------------|------------------|--|
| AWARD NO. N00014-18-1-2503 | SPECIAL REQUIREMENTS | MODIFICATION NO. | |
|-------------------------------|-----------------------------|------------------|--|

1. The Following payment instructions are hereby provided:

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Payment Office:
The payment office shall make payment in sequential ACRN order within the award, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: alpha/alpha; alpha/numeric; numeric/alpha; and numeric/numeric ACRN sequence.

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Grantee:
Payment guides are available on the ONR website at the following link:
. <http://www.onr.navy.mil/Contracts-Grants/manage-grant/grants-payment/electronic-payment.aspx>

2. Reports:

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Block 31 of this award form, including any information in the header and underlying rows of that block, is hereby deleted in its entirety and replaced by the following language: "The reporting requirements under this award are specified in the articles of Part 5 (Financial, Programmatic, and Property Reporting) to the DoD R&D General Terms and Conditions and in the additional language for Part 5 in the ONR Addendum to the DoD R&D General Terms and Conditions".